

# HEWLETT-PACKARD COMPANY LOGIC SYSTEMS DIVISION

# HP 64000 Logic Development System

SYSTEM RELEASE BULLETIN

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E0888

# HP STARS II

# 64000 SOFTWARE RELEASE BULLETIN

**UPDATE 88.08A** 

**AUGUST, 1988** 

This document supersedes all previously dated SSBs.

HEWLETT PACKARD

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### STARS II SRB (STARS B)

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STARS B
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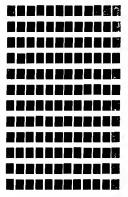


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#### PREFACE

This Software Release Bulletin documents all fixes and enhancements that are incorporated in the new release identified on the cover page. The SRB is provided as a benefit of Hewlett-Packard's Account Management Support, Response Center Support, and Software Materials Subscription.

Of the five sections contained in the SRB (not including the PREFACE), only the last section which contains the detailed reports has page numbers. These are referenced by the product, report number and keyword indexes in order to direct the user to a particular area or to an individual detailed report. The five sections are described below.

#### SOFTWARE RELEASE CONTENTS

This section lists the product names, numbers and update/fix levels of all products contained in this release. Products that have changed, or are new are denoted with an asterisk preceding the product name.

#### PRODUCT INDEX

Each unique product name/number has an entry listing the page number where the detailed report for that product begins.

#### REPORT NUMBER INDEX

This index is a sequential list of the individual report numbers with the corresponding page number where the report can be found.

#### KEYWORD INDEX

This index is sorted by product name, keyword, product number (including the update/fix level) and by report number in that order. In addition to the sort items, each entry has a brief description (one line) and the page number where the detailed report can be found. Note that a given report can be listed more than once in this section if it has more than one keyword assigned to it.

#### DETAILED REPORTS

Each report contains all the available information relevant to the problem being corrected or the enhancement being implemented.

### Software release contents

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*68000 12MHZ EMUL	DOS	647428006	01.01
*68000 ASSEMB	DOS	648458006	02.11
*68010 16MHZ EMUL	DOS	647458006	01.01
*68020 EMUL	300	644108004	02.10
*80186 EMUL	DOS	647648006	01.01
*80188 EMUL	DOS	647658006	01.01
*8086/8 ASSEMB	DOS	64853S006	02.71
*HP TEAMWORK	300	647118004	02.20
*NETWORK TRANSFER	500	648885001	01.20
*STATE ANALYZER	300	646208004	01.30
*USER DEF ASSEMB	DOS	64851S006	02.15
*UTILITIES PKG	300	648885003	01.50
*UTILITIES PKG	300	648885004	01.20
*Z80 EMUL	DOS	64753S006	01.01
*Z80 ASSEMB	DOS	648428006	01.91

### Product index

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Keyword	Product number	uu.ff Description	Report #	page
********none****** ENHANCEMENT		01.10 X1ate cannot convert the file with address OFFFFH 01.00 Desire ability to control the length of S-Records output from 64888.	5000259838 5000185447	

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00.01

Number: 5000272526 Product: 68000 12MHZ EMUL DOS 64742S006

Number: D200087627 Product: 68010 16MHZ EMUL DOS 64745S006

One-line description:

Address Specifiers that include "don't care" characters may fail.

Problem:

Address specifiers that include "don't care" characters may fail to work properly. Example:

When specifying trigger or storage addresses:

9XXXXXH - captures or triggers on addresses outside 90000H-9FFFFFH 90XXXXH - captures or triggers on addresses outside 90000H-90FFFFH

900XXXH - works as expected

Temporary solution:

Use the Terminal interface to specify the trace and execute the trace.

Signed off 07/11/88 in release A01.01

imbor: DONNOTEOT - Product: EONIN 15MUT EMILL DOS 647455NOS

Page:

2

00.00

One-line description:

Enhancement to add the M68010 processor registers

Enhancement text:

and the m68010 programmatics. The register

additions were vbr, sfc and dfc.

SRB detail reports as of 07/11/88

Page:

Number: 5000283622 Product: 68020 EMUL

300 64410S004

02.00

One-line description:

Code disp, with trace not right if code changed w/o ending emul. session

Problem:

Source lines displayed with a trace may not be correct if the code is changed without ending out of the emulation session. For example, a user running is windows does a display trace source on, and sees a statement: i = 1; in the trace along with the MOVE.L #1,D0 that accompanies that source line. The user then moves to another window, changes the source line to i = 2;, recompiles, relinks, and runs edbuild. The user then moves back to the emulation window, reloads the file, and reruns the code and the trace. The trace shows MOVE.L #2,D0 as expected, BUT shows i = 1; as the source line.

End out of emulation, and reenter before loading the new program Source lines displayed with a trace may not be correct if the code is changed without ending out of the emulation session. For example, a user running is windows does a display trace source on, and sees a statement: i = 1; in the trace along with the MOVE.L #1,D0 that accompanies that source line. The user then moves to another window, changes the source line to i = 2; recompiles, relinks, and runs edbuild. The user then moves back to the emulation window, reloads the file, and reruns the code and the trace. The trace shows MOVE.L #2,00 as expected, BUT shows i = 1; as the source line.

Temporary solution:

End out of emulation, and reenter before loading the new program or executing the trace.

Signed off 07/11/88 in release A02.10

Number: D200086769 Product: 68020 EMUL

300 644105004

02.00

One-line description:

Shared contects are not shown as such in "copy trace spec" output.

Shared contexts are not shown as explicitly shared in the output of the copy trace\_specification... command. Instead, the context spec is repeated. E. g.

T CONTEXT enable after a= 4000h

S CONTEXT enable after a= 4000h

instead of the displayed version:

T\_CONTEXT enable after a= 4000h

S CONTEXT T CONTEXT

Signed off 07/11/88 in release A02.10

SRB detail reports as of 07/11/88

300 64410S004

02.00

Number: D200086777 Product: 68020 EMUL

Page:

One-line description:

"display trace find..." may not work if the status displayed is absolute

The "display trace find ..." command will fail to locate any pattern if the trace display currently shows status in absolute form (binary or hex). There is no problem, however, when source display is also

Temporary solution:

Two Solutions exist:

-1-

Do a "display trace mnemonic ..." or "display trace status mnemonic ..." before the find command, or -2-

simply enable a source display with "display trace source on".

Signed off 07/11/88 in release A02.10

Number: D200086785 Product: 68020 EMUL

300 644105004

02.00

One-line description:

Session may abort if fpu disabled in config while displaying fpu regs.

When fpu registers are being displayed repetitively, and then configuration is modified and the internal fpu is disabled, the emulation session will automatically "end release" and dump core.

Temporary solution:

Before modifying configuration to disable the fpu, issue a display command for something other than registers.

Signed off 07/11/88 in release A02.10

Number: D200086793 Product: 68020 EMUL

300 64410S004

02.00

One-line description:

Erroneous trace data may be shown with "at execution run" command.

If no traces have been taken in the current emulation session, the commands

at execution run ... execute

will cause erroneous trace data to be shown. This will not occur if any traces have been taken.

Display of false data will also occur with the following commands:

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at\_execution rum ...
at execution trace ...

load trace\_specification ... (should cancel pending at\_exec trace)
end (locked or to measurement\_system or another module)
(resume)

execute (should cause run only)

Taking a trace after the load and before the "end" will prevent this.

Temporary solution:

Workarounds are described in the problem text.

Signed off 07/11/88 in release A02.10

Number: D200086819 Product: 68020 EMUL

02.00

One-line description:

Conflicts may exist between simulated interrupts and SW breakpoints.

#### Problem:

Execution of software breakpoints may not be recognized by the emulator software if simulated interrupts are also being used. This occurs when the breakpoint is hit at the same time the emulator software is trying to break to the monitor to initiate a simulated interrupt. Upon completion of the simulated interrupt, the monitor will return to the users code, completely ignoring the breakpoint.

If possible, simulated interrupts should be disabled during use of breakpoints by clearing the simulated interrupt control address either from the softkeys (using modify memory) or in the user code.

Temporary solution:

If possible, simulated interrupts should be disabled during use of breakpoints by clearing the simulated interrupt control address either from the softkeys (using modify memory) or in the user code.

Signed off 07/11/88 in release A02.10

Number: D200086827 Product: 68020 EMUL

300 64410S004

300 64410S004

02.00

One-line description:

Long trace sequence name ( gt 8 characters) is not flagged properly.

Problem:

Names used in analysis sequence specifications are limited to eight characters in length. Longer names are automatically truncated by the software with no warning to the user. This might cause confusion if the user recalls and modifies a command on the command line since the software will not recognize the long name in a subsequent "modify" command.

Temporary solution:

Only names of 8 or less characters should be used in the sequencer.

Signed off 07/11/88 in release A02.10

SRB detail reports as of 07/11/88

Page:

Number: D200090530 Product: 68020 EMUL

300 64410S004

6

One-line description:

bbaunload causes memory growth problems in emulators

roblem:

Detailed Listing for Defect Number LSDqf03808

Text

bbaumload causes memory growth problems in emulators

.submitter

The bbaunload library (/lsd/p2/cmd/bba/prod/unload) allocates memory and never frees it.

Bruce E

FIXED:

The new library fixes these problems as well as making the whole unload process much faster. It is fixed as of 03June88.

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00.01

SRB detail reports as of 07/11/88

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Number: D200087650 Product: 80186

EMUL DOS 64764S006

Number: D200089821 Product: 80188

EMUL DOS 647655006

8

One-line description:

Request for Register interface changes.

Dunklam.

Register function interface ENHANCEMENTS:

- Changed the size of the register number and class number from a u\_int8 to a u\_int16.
- 2. Changed the dataarray from a u\_int32 \* to an intn \*.
- Added the register attributes: regtype, intntype, and intnsize and removed the attributes type, and size.
- 4. Added the pcaobj element to the readregolstruct structure.

Signed off 07/11/88 in release A01.01

Number. Bevvvojoer froduc

One-line description: Invalid expressions can corrupt PC memory

Problem

Detailed Listing for Defect Number LSDqf03471

Text

Invaild expressions can corrupt PC memory.

.submitter

If two syntactically incorrect expressions are entered one after the other, PC memory may be corrupted. Data could be corrupted; the interface could hang.

The invalid expressions could be entered in any address or data expression in the PC interface.

resp engr: Harold Shaw

.labnotes

Whenever cefree() is called with a pointer, it frees the space but does not set the pointer to NULL. If a global variable is passed to cefree(), it may free space that has already been freed.

Jeff Downs

.workaround

Be sure that expressions are syntactically correct.

Page: 9

Number: D200070060 Product: HP TEAMWORK

300 64711S004

Signed off 10/09/87 in release 402.20 01.00

One-line description:

Won't open Data Flow Diagram

Problem:

When working on a DFD, the ERROR MESSAGE: "ERROR: This mode has not been configured for real time objects, your DFD has been opened for READ. see your SA", intermittently occurs... More prevelent when another Pisces II product is running.

Signed off 10/09/87 in release 402.20

Number: D200076505 Product: HP TEAMWORK

300 64711S004 01.00

One-line description:

I/O timing loops are machine dependent. 350 runs much faster than 320.

Timing loops for items like "waiting for a key entry" are machine dependent. Hence, they usually run much faster on a 350 than a 320. This will make things like "repeat a character" when a key is held down happen much faster.

Temporary solution: None at this time.

Signed off 10/09/87 in release A02.20

Number: D200076521 Product: HP TEAMWORK

01.00

Keywords: CUSTOMIZE

One-line description:

Should keep the manual pages if /usr/man/man1 doesn't exist.

If one is doing a custom installation where hptwk isn't being installed under /usr/hp64000/..., it is quite possible that the user has removed /usr/man/man\*. If this is the case, the customize script should leave the man' pages alone and not remove them from \$PWD/usr/man/man1 as it presently does.

Signed off 10/09/87 in release A02.20

Number: D200076968 Product: HP TEAMWORK

300 647118004

300 64711S004

01.00

One-line description:

Title changes do not 'filter down' to lower levels.

Changing the title of a SC in a process index does not change the title in the box in the SC.

Temporary solution: None at this time.

SRB detail reports as of 07/11/88

Number: D200078717 Product: HP TEAMWORK

300 647115004

01.00

10

Page:

One-line description:

FILES MISSING WHEN 64702 IS INSTALLED WITHOUT THE 64711 FILESET

When the 64702 fileset is loaded on a machine without the 64711 fileset, two files required by the 64702 must be copyied from a machine that has the 64711 fileset loaded. They are /usr/hp64000/hptwk/twk/install/insta ll.msg

and /usr/hp64000/hptwk/twk/config\_file. These files must be copyied to the machine where the 64702 fileset was loaded or the following error me

result:

NO TWK\_INSTALL MSG1\_FILE CANNOT\_OPEN\_CONFIG\_FILE

Temporary solution:

The two files required by the 64702 must be copyied from a machine that the 64711 fileset loaded. They are: /usr/hp64000/hptwk/twk/install.msg

and /usr/hp64000/hptwk/twk/config file. These files must be copyied to the machine where the 64702 fileset was loaded.

Signed off 10/09/87 in release 402.20

Number: 5000196048 Product: HP TEAMWORK

300 647115004

0.1 0.0

One-line description:

Better use of laser printers.

USING A LASERJET-PLUS TO PRINT RESULTS IN HARDCOPY USING ONLY 1/4 OF A PAGE INSTEAD OF THE WHOLE PAGE. THIS RESULTS IN LARGE DFD'S BEING VERY DIFFICULT TO READ AND HURTS HP'S CLAIM THAT WE HAVE "THE BEST PERIPHERAL SUPPORT" . THE HP74200 "EDS" PRODUCT HAS NO PROBLEM WITH FULL PAGE LASER PRINTOUTS.

Temporary solution: None.

Signed off 10/23/87 in release 402.20

Number: D200067371 Product: HP TEAMWORK

300 647115004

01.00

One-line description:

Need ability to import and export notes to and from HP-UX environment.

Problem:

Customer would like to be able to create notes using an editor in HP-UX and then import them into HP Teamwork. This option is available in the P-spec body pull-down menu with the "Paste Body from file" menu selection. There should also be a selection "Write Body to File" to export notes into the HP-UX environment.

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Signed off 10/09/87 in release 402.20

Number: D200076992 Product: HP TEAMWORK

300 64711S004 01.00

One-line description:

Wrong date displayed by load twk.

Problem:

load twk displays all the parameters it was invoked with and

the date of "Wed Dec 31 16:59:59 1969".

Signed off 10/09/87 in release 402.20

SRB detail reports as of 07/11/88

Page:

Number: D200076687 Product: STATE ANALYZER 300 64620S004

12 01.10

One-line description:

State Pv causes cardcage IMB to latch.

Signed off 07/11/88 in release A01.30

Number: D200082388 Product: STATE ANALYZER 300 646205004 01.10

One-line description:

Processes sometimes left running after parent has stopped.

Problem:

Sometimes, when the parent process to a measurement system is killed some of the measurement systems processes are left running. Please change the behaviour of the products so that these processes die nicelv.

Temporary solution:

If the tty associated with the process is a pty, then you can

release the processes by

cat < ptyxx

This causes the pending output to be flushed, and the processes will die naturally.

Signed off 07/11/88 in release A01.30

Number: D200082487 Product: STATE ANALYZER 300 64620S004 01.10

One-line description:

Display symbol shows "symb not found" when showing sym within process.

Signed off 07/11/88 in release A01.30

Number: D200087528 Product: STATE ANALYZER 300 64620S004 01.10

One-line description:

State does not yet support the system II "set" command

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Number: 5000259838 Product: UTILITIES PKG

300 648885004

01.10

One-line description:

Xlate cannot convert the file with address OFFFFH

Problem:

Xlate can not convert the file including address OFFFFH. Xlate generates error "xlate: invalid address, address too large for processor".

Example: "tem"

"8085"

ORG OFFFFH DB "A"

After made absolute file, excuted " xlate -t ih80 -f tem.X ". Error occured. The message is discribed above.

Temporary solution:

No temporary solution at this time.

Signed off 07/11/88 in release A01.20

Number: 5000185447 Product: UTILITIES PKG 300 64888S004 01.00

Keywords: ENHANCEMENT

One-line description:

Desire ability to control the length of S-Records output from 64888.

Problem:

This SR is submitted against 64888 Transfer Utility Package, but since the product is not loaded in the database yet, I used the 68010 linker part number.

Customers using the 64888 Transfer Utility Package need the capability to control the length of the S-records that are being output from xlate. Motorola standards say that the records may be of any length up to 255 bytes, and the xlate utility will output records that are consistantly 255 bytes if necessary and then fill the last record with the remainder. However some older microprocessor systems were designed with a fixed length S-record scheme. For example the 64100 terminal emulator upload function outputs S-records that are 28 bytes in length including header information, checksum and data. I have a target system that has been designed with this scheme in mind and consequently expects S-records to be of this length. Therefore to accommodate older systems an enhancement to the xlate command that allows record length specification would be greatly appreciated.

